



# Decanter Centrifuge Upgrades

*Enhance Performance and Extend the Life of Your Decanter Centrifuge*

## Centrifuge Upgrade | Retrofit | Rebuild/Overhaul

Upgrading older decanter centrifuge models brings them up to the performance level of newer generations and models. In addition to improving productivity and performance, upgrades offer tremendous financial benefit because they extend the life of the centrifuge. We upgrade all makes, models and brands of decanter centrifuges.

- **Upgrade:** A modification that enhances the decanter centrifuge to look or perform better; typically to the control panel or centrifuge
- **Retrofit:** A modification from the original design by adding new technology to an older decanter centrifuge; refers to removing the old gearbox and retrofitting with our Viscotherm ROTODIFF® Hydraulic Drive System
- **Rebuild/overhaul:** refurbish the centrifuge to the original condition without any modifications

## Improve Your Decanter Centrifuge Process

Performing an upgrade, retrofit or rebuild to your decanter centrifuge provides numerous benefits. For older centrifuges, backdrive or control panel parts can be scarce or discontinued. Installing updated technology allows your centrifuge to run more efficiently.

- **Reduce maintenance, increase uptime and lower hauling costs:** equipment performs better, is more reliable and lasts longer from an updated control panel, backdrive or basic centrifuge maintenance
- **Control panel enhancements:** update with current electronics to increase performance, capability and efficiency
  - Replace SCADA systems, VFD controlled main motors or outdated control systems with the latest PLC technology
  - **Dedicated electrical engineers** specialize in re-writing or reverse-engineering programs to work just as well, if not

better, than the original programs when obsolete parts are replaced in a panel

- Thoroughly **test platforms** to ensure the software is reliable for the customer; we don't want you to be the guinea pig to new technology
- **Provide risk mitigation:** we know uptime is critical; when parts are obsolete or being phased out, we help you evaluate whether using the same part or changing to the updated version is cost-effective for your company
- **Reduce operator intervention:** technology changes quickly and an older centrifuge can benefit with program changes or touch screen software that automates the controls and makes the centrifuge easier to use with just one click
- Viscotherm ROTODIFF® Hydraulic Drive System retrofit
  - Higher torque-to-weight ratio: Achieve **dryer solids**, precise **speed control** and **increase throughput capacity**
  - **Simplifies the design** and radically reduces the number of moving parts and wear components compared to a gearbox
  - Increase energy efficiency: **use only the energy needed** for the scroll drive as it's independent from the maindrive; power is **not lost or wasted** from the maindrive
  - **Recover energy at shut down:** CERS (Centrifuge Energy Recovery System) state-of-the-art technology captures energy from the rotating bowl and allows for seamless backup with continued operation for controlled scroll speed
  - **Eliminate chattering:** chattering occurs when the scroll has a moving and stopping motion; this creates back pressure and reduces output and creates wetter solids

*One of the largest U.S. food processors reached its ROI in just two years when upgrading 50 centrifuges with a Viscotherm ROTODIFF® Hydraulic Drive System.*





Before



After

## Service that Never Stops

Nationwide and global on-site field-service capabilities, 24 hours a day, 7 days a week, including:



- Repair services - includes centrifuge rebuild
- Preventative maintenance
- Process evaluations/optimization
- Installation assistance
- Machine inspection
- Vibration analysis and other diagnostic services
- Operator and maintenance training
- Maintenance agreements
- Flight repair and replacement
- High speed dynamic balancing
- Control Panel Automation and upgrades
- ISO 9001:2015

### More Value



#### Phone Consultations

With our years of experience, we can diagnose many problems over the phone for our customers, saving time and money



#### Rentals

Handling seasonal processing requirements or for temporary maintenance requests, we offer short and long-term rental or leasing options



#### Remote Monitoring

A proprietary remote solution integrated into the control panel, providing 24/7, real-time text and email alerts for equipment status changes

**Ready to save valuable time and aggravation with repairs done in days, not weeks? Contact Centrisys.**

#### Service

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#### Questions

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#### Parts

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